

\*\*\*Initial Parameter List For Sensitivity/Uncertainty Analysis And Output DSN from the UCI file,  
 \*\*\*Following Output IDs are the first two ID read from the EXT TARGET block of the UCI file. You can add more,  
 DSN,6320,8690,  
 \*\*\*The operation number, land use, tied with next, and multiplier can be left blank",  
 ParmID,OPN\_Type,Table\_Name,Parm\_Name,Occur\_Or\_MLNumber,Mult\_Factor\_FG,OPN\_Number\_Or\_Name,Lower\_Limit,Upper\_Limit,Comments (This column will be ignored by HSPEXP+),  
 1,,MASS-LINK,PQUAL:POQUAL:3:0:INFLOW:NUIF1:4:0,2,1,,,PO4 MASS Link,  
 2,,MASS-LINK,PQUAL:POQUAL:1:0:INFLOW:NUIF1:2:0,2,1,,,NO3 MASS Link,  
 3,,MASS-LINK,PQUAL:POQUAL:2:0:INFLOW:NUIF1:1:0,2,1,,,TAM MASS LINK,  
 4,,MASS-LINK,PQUAL:POQUAL:4:0:INFLOW:OXIF:2:0,2,1,,,BOD MASS LINK,  
 5,,MASS-LINK,PQUAL:POQUAL:4:0:INFLOW:PKIF:3:0,2,1,,,OrgN MASS LINK,  
 6,,MASS-LINK,PQUAL:POQUAL:4:0:INFLOW:PKIF:4:0,2,1,,,OrgP MASS LINK,  
 7,,MASS-LINK,PQUAL:POQUAL:4:0:INFLOW:PKIF:5:0,2,1,,,OrgC MASS LINK,  
 8,,MASS-LINK,PHOS:TSP4S:1:0:INFLOW:NUIF1:4:0,5,1,,,PO4 Surface water Outflow,  
 9,,MASS-LINK,PHOS:TSP4S:5:0:INFLOW:NUIF1:4:0,5,1,,,PO4 Surface water Outflow with water from upper layer storage,,  
 10,,MASS-LINK,PHOS:SSP4S:3:0:INFLOW:NUIF1:4:0,5,1,,,PO4 outflow with water from active groundwater,,  
 11,,MASS-LINK,PHOS:SEDP:2:0:INFLOW:NUIF2:2:2,5,1,,,adsorbed PO4,,  
 12,,MASS-LINK,PHOS:SEDP:2:0:INFLOW:NUIF2:3:2,5,1,,,adsorbed PO4,,  
 13,,MASS-  
 LINK,NITR:PONO3:0:0:INFLOW:NUIF1:1:0,5,1,,,Nitrate,,  
 14,,MASS-LINK,NITR:TSAMS:1:0:INFLOW:NUIF1:2:0,5,1,,,Dissolved NH3,,  
 15,,MASS-LINK,NITR:TSAMS:5:0:INFLOW:NUIF1:2:0,5,1,,,Dissolved NH3,,  
 16,,MASS-LINK,NITR:SSAMS:3:0:INFLOW:NUIF1:2:0,5,1,,,Dissolved NH3,,  
 17,,MASS-LINK,NITR:SEDN:2:0:INFLOW:NUIF2:2:1,5,1,,,adsorbed NH3,,  
 18,,MASS-LINK,NITR:SEDN:2:0:INFLOW:NUIF2:3:1,5,1,,,adsorbed NH3,,  
 19,,MASS-LINK,NITR:POORN:0:0:INFLOW:PKIF:3:0,5,1,,,Refractory Organic N,,  
 20,,MASS-LINK,NITR:POORN:0:0:INFLOW:OXIF:2:0,5,1,,,Labile Org N,,  
 21,,MASS-LINK,PHOS:SEDP:1:0:INFLOW:PKIF:4:0,5,1,,,Refractory Organic P,,  
 22,,MASS-LINK,NITR:POORN:0:0:INFLOW:PKIF:5:0,5,1,,,Refractory Organic C,,  
 23,Point,EXTNL-SOURCES,NUIF1:4:0,,1,304,,Point Source of

PO4,,,,,,,,,,  
24,Point,EXTNL-SOURCES,NUIF1:1:0,,1,304,,,Point Source of  
NO3,,,,,,,,,,  
25,Point,EXTNL-SOURCES,NUIF1:2:0,,1,304,,,Point Source of  
TAM,,  
26,Point,EXTNL-SOURCES,OXIF:2:0,,1,304,,,Point Source of  
BOD,,  
27,Point,EXTNL-SOURCES,PKIF:3:0,,1,304,,,Point source of  
OrgN,,  
28,Point,EXTNL-SOURCES,PKIF:4:0,,1,304,,,Point Source of  
OrgP,,  
29,Point,EXTNL-SOURCES,PKIF:5:0,,1,304,,,Point Source of  
OrgC,,  
30,Point,EXTNL-SOURCES,NUIF1:4:0,,1,809,,,Point Source of  
PO4,,  
31,Point,EXTNL-SOURCES,NUIF1:1:0,,1,809,,,Point Source of  
NO3,,  
32,Point,EXTNL-SOURCES,NUIF1:2:0,,1,809,,,Point Source of  
TAM,,  
33,Point,EXTNL-SOURCES,OXIF:2:0,,1,809,,,Point Source of  
BOD,,  
34,Point,EXTNL-SOURCES,PKIF:3:0,,1,809,,,Point source of  
OrgN,,  
35,Point,EXTNL-SOURCES,PKIF:4:0,,1,809,,,Point Source of  
OrgP,,  
36,Point,EXTNL-SOURCES,PKIF:5:0,,1,809,,,Point Source of  
OrgC,,  
37,Point,EXTNL-SOURCES,NUIF1:4:0,,1,516,,,Point Source of  
PO4,,  
38,Point,EXTNL-SOURCES,NUIF1:1:0,,1,516,,,Point Source of  
NO3,,  
39,Point,EXTNL-SOURCES,NUIF1:2:0,,1,516,,,Point Source of  
TAM,,  
40,Point,EXTNL-SOURCES,OXIF:2:0,,1,516,,,Point Source of  
BOD,,  
41,Point,EXTNL-SOURCES,PKIF:3:0,,1,516,,,Point source of  
OrgN,,  
42,Point,EXTNL-SOURCES,PKIF:4:0,,1,516,,,Point Source of  
OrgP,,  
43,Point,EXTNL-SOURCES,PKIF:5:0,,1,516,,,Point Source of  
OrgC,,  
44,Point,EXTNL-SOURCES,NUIF1:4:0,,1,408,,,Point Source of  
PO4,,  
45,Point,EXTNL-SOURCES,NUIF1:1:0,,1,408,,,Point Source of  
NO3,,  
46,Point,EXTNL-SOURCES,NUIF1:2:0,,1,408,,,Point Source of  
TAM,,  
47,Point,EXTNL-SOURCES,OXIF:2:0,,1,408,,,Point Source of  
BOD,,  
48,Point,EXTNL-SOURCES,PKIF:3:0,,1,408,,,Point source of  
OrgN,,  
49,Point,EXTNL-SOURCES,PKIF:4:0,,1,408,,,Point Source of  
OrgP,,  
50,Point,EXTNL-SOURCES,PKIF:5:0,,1,408,,,Point Source of  
OrgC,,  
51,Point,EXTNL-SOURCES,NUIF1:4:0,,1,308,,,Point Source of

PO4,,,,,,,,,,  
52,Point,EXTNL-SOURCES,NUIF1:1:0,,1,308,,,Point Source of  
NO3,,,,,,,,,,  
53,Point,EXTNL-SOURCES,NUIF1:2:0,,1,308,,,Point Source of  
TAM,,  
54,Point,EXTNL-SOURCES,OXIF:2:0,,1,308,,,Point Source of  
BOD,,  
55,Point,EXTNL-SOURCES,PKIF:3:0,,1,308,,,Point source of  
OrgN,,  
56,Point,EXTNL-SOURCES,PKIF:4:0,,1,308,,,Point Source of  
OrgP,,  
57,Point,EXTNL-SOURCES,PKIF:5:0,,1,308,,,Point Source of  
OrgC,,  
58,Point,EXTNL-SOURCES,NUIF1:4:0,,1,204,,,Point Source of  
PO4,,  
59,Point,EXTNL-SOURCES,NUIF1:1:0,,1,204,,,Point Source of  
NO3,,  
60,Point,EXTNL-SOURCES,NUIF1:2:0,,1,204,,,Point Source of  
TAM,,  
61,Point,EXTNL-SOURCES,OXIF:2:0,,1,204,,,Point Source of  
BOD,,  
62,Point,EXTNL-SOURCES,PKIF:3:0,,1,204,,,Point source of  
OrgN,,  
63,Point,EXTNL-SOURCES,PKIF:4:0,,1,204,,,Point Source of  
OrgP,,  
64,Point,EXTNL-SOURCES,PKIF:5:0,,1,204,,,Point Source of  
OrgC,,  
65,Point,EXTNL-SOURCES,NUIF1:4:0,,1,102,,,Point Source of  
PO4,,  
66,Point,EXTNL-SOURCES,NUIF1:1:0,,1,102,,,Point Source of  
NO3,,  
67,Point,EXTNL-SOURCES,NUIF1:2:0,,1,102,,,Point Source of  
TAM,,  
68,Point,EXTNL-SOURCES,OXIF:2:0,,1,102,,,Point Source of  
BOD,,  
69,Point,EXTNL-SOURCES,PKIF:3:0,,1,102,,,Point source of  
OrgN,,  
70,Point,EXTNL-SOURCES,PKIF:4:0,,1,102,,,Point Source of  
OrgP,,  
71,Point,EXTNL-SOURCES,PKIF:5:0,,1,102,,,Point Source of  
OrgC,,  
72,Point,EXTNL-SOURCES,NUIF1:4:0,,1,703,,,Point Source of  
PO4,,  
73,Point,EXTNL-SOURCES,NUIF1:1:0,,1,703,,,Point Source of  
NO3,,  
74,Point,EXTNL-SOURCES,NUIF1:2:0,,1,703,,,Point Source of  
TAM,,  
75,Point,EXTNL-SOURCES,OXIF:2:0,,1,703,,,Point Source of  
BOD,,  
76,Point,EXTNL-SOURCES,PKIF:3:0,,1,703,,,Point source of  
OrgN,,  
77,Point,EXTNL-SOURCES,PKIF:4:0,,1,703,,,Point Source of  
OrgP,,  
78,Point,EXTNL-SOURCES,PKIF:5:0,,1,703,,,Point Source of  
OrgC,,  
79,Point,EXTNL-SOURCES,NUIF1:4:0,,1,506,,,Point Source of

PO4,,,,,,,,,,  
80,Point,EXTNL-SOURCES,NUIF1:1:0,,1,506,,,Point Source of  
NO3,,,,,,,,,,  
81,Point,EXTNL-SOURCES,NUIF1:2:0,,1,506,,,Point Source of  
TAM,,,,,,,,,,  
82,Point,EXTNL-SOURCES,OXIF:2:0,,1,506,,,Point Source of  
BOD,,,,,,,,,,  
83,Point,EXTNL-SOURCES,PKIF:3:0,,1,506,,,Point source of  
OrgN,,,,,,,,,,  
84,Point,EXTNL-SOURCES,PKIF:4:0,,1,506,,,Point Source of  
OrgP,,,,,,,,,,  
85,Point,EXTNL-SOURCES,PKIF:5:0,,1,506,,,Point Source of  
OrgC,,,,,,,,,,  
86,Point,EXTNL-SOURCES,NUIF1:4:0,,1,420,,,Point Source of  
PO4,,,,,,,,,,  
87,Point,EXTNL-SOURCES,NUIF1:1:0,,1,420,,,Point Source of  
NO3,,,,,,,,,,  
88,Point,EXTNL-SOURCES,NUIF1:2:0,,1,420,,,Point Source of  
TAM,,,,,,,,,,  
89,Point,EXTNL-SOURCES,OXIF:2:0,,1,420,,,Point Source of  
BOD,,,,,,,,,,  
90,Point,EXTNL-SOURCES,PKIF:3:0,,1,420,,,Point source of  
OrgN,,,,,,,,,,  
91,Point,EXTNL-SOURCES,PKIF:4:0,,1,420,,,Point Source of  
OrgP,,,,,,,,,,  
92,Point,EXTNL-SOURCES,PKIF:5:0,,1,420,,,Point Source of  
OrgC,,,,,,,,,,  
93,Point,EXTNL-SOURCES,NUIF1:4:0,,1,902,,,Point Source of  
PO4,,,,,,,,,,  
94,Point,EXTNL-SOURCES,NUIF1:1:0,,1,902,,,Point Source of  
NO3,,,,,,,,,,  
95,Point,EXTNL-SOURCES,NUIF1:2:0,,1,902,,,Point Source of  
TAM,,,,,,,,,,  
96,Point,EXTNL-SOURCES,OXIF:2:0,,1,902,,,Point Source of  
BOD,,,,,,,,,,  
97,Point,EXTNL-SOURCES,PKIF:3:0,,1,902,,,Point source of  
OrgN,,,,,,,,,,  
98,Point,EXTNL-SOURCES,PKIF:4:0,,1,902,,,Point Source of  
OrgP,,,,,,,,,,  
99,Point,EXTNL-SOURCES,PKIF:5:0,,1,902,,,Point Source of  
OrgC,,,,,,,,,,  
100,Point,EXTNL-SOURCES,NUIF1:4:0,,1,725,,,Point Source of  
PO4,,,,,,,,,,  
101,Point,EXTNL-SOURCES,NUIF1:1:0,,1,725,,,Point Source of  
NO3,,,,,,,,,,  
102,Point,EXTNL-SOURCES,NUIF1:2:0,,1,725,,,Point Source of  
TAM,,,,,,,,,,  
103,Point,EXTNL-SOURCES,OXIF:2:0,,1,725,,,Point Source of  
BOD,,,,,,,,,,  
104,Point,EXTNL-SOURCES,PKIF:3:0,,1,725,,,Point source of  
OrgN,,,,,,,,,,  
105,Point,EXTNL-SOURCES,PKIF:4:0,,1,725,,,Point Source of  
OrgP,,,,,,,,,,  
106,Point,EXTNL-SOURCES,PKIF:5:0,,1,725,,,Point Source of  
OrgC,,,,,,,,,,  
107,Point,EXTNL-SOURCES,NUIF1:4:0,,1,324,,,Point Source of

